

FIG.1

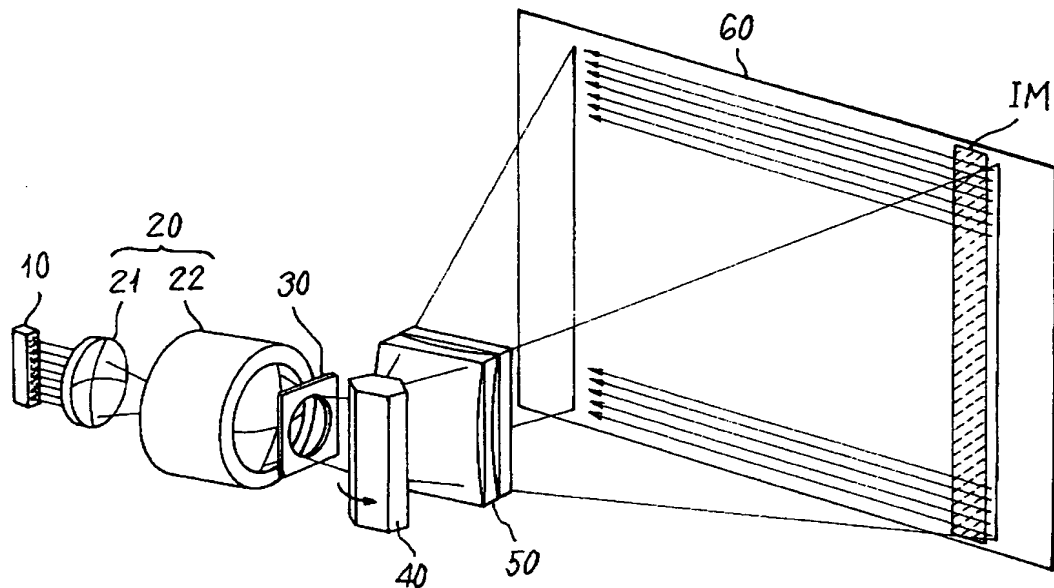
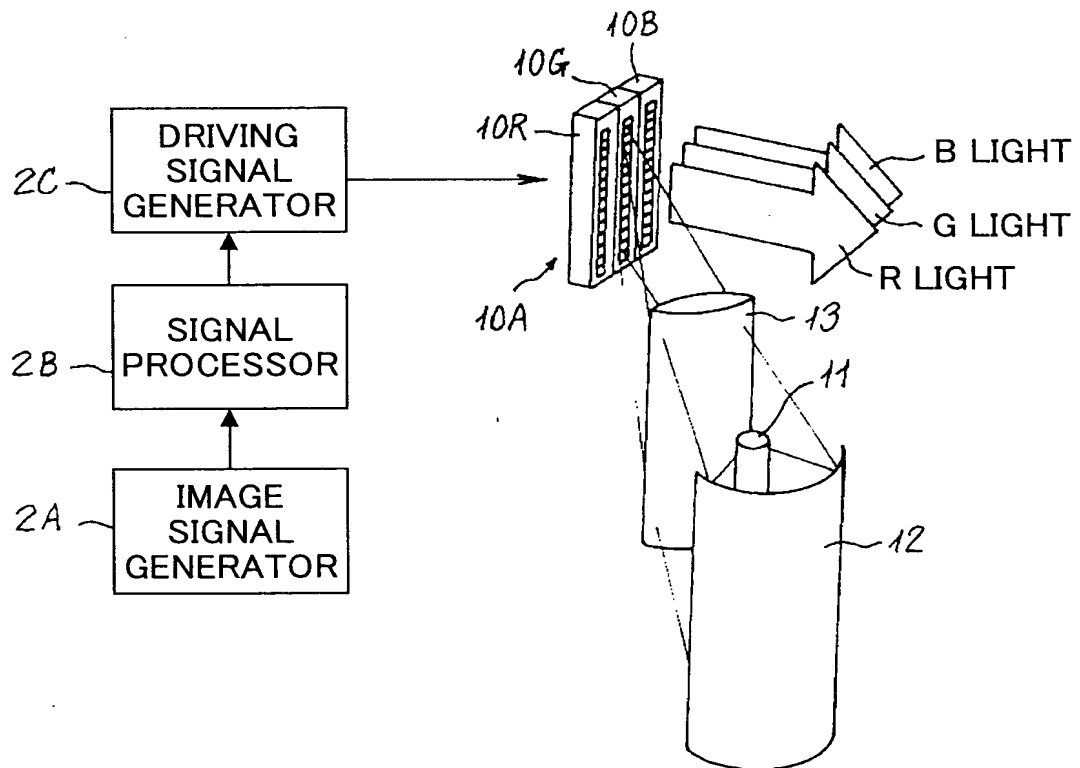


FIG.2



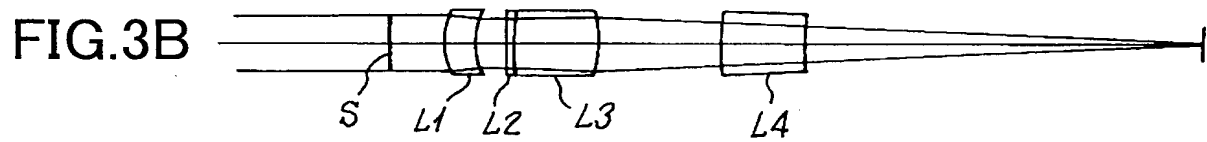
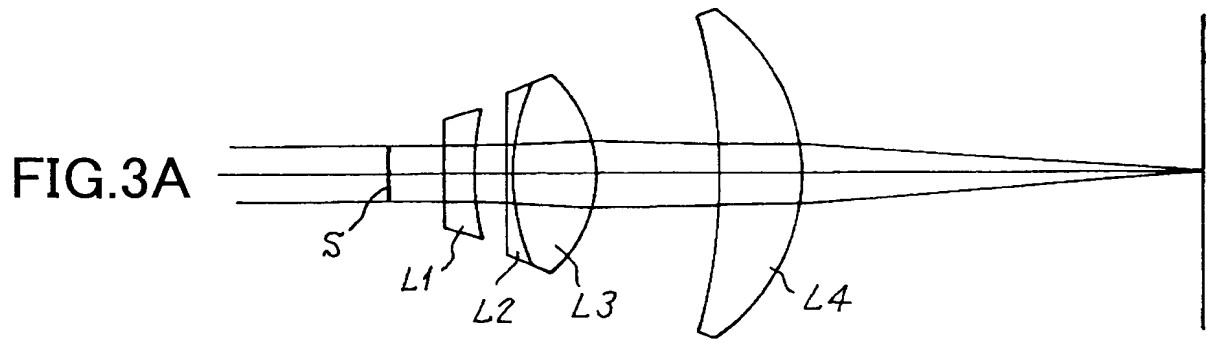
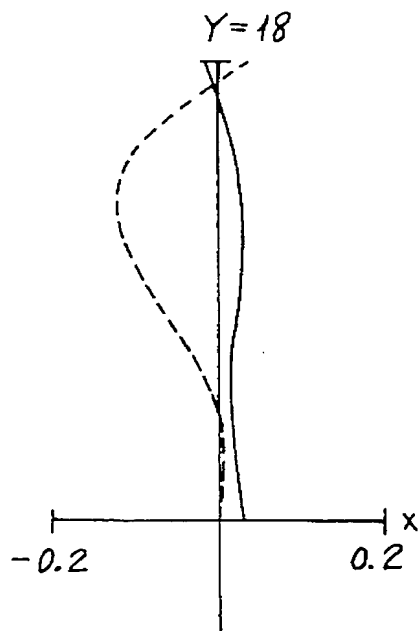
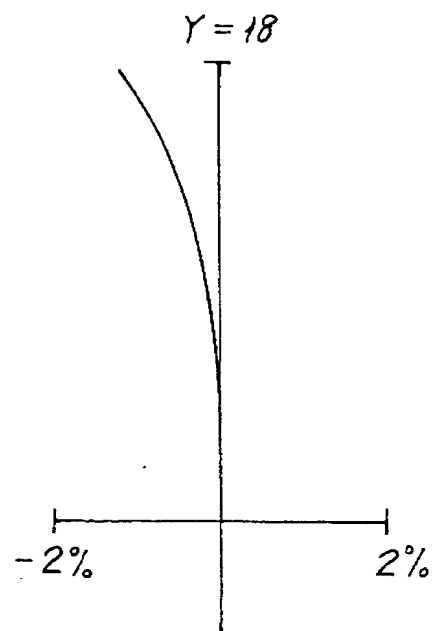


FIG.4A



CURVATURE OF FIELD

FIG.4B



DISTORTION

FIG.5

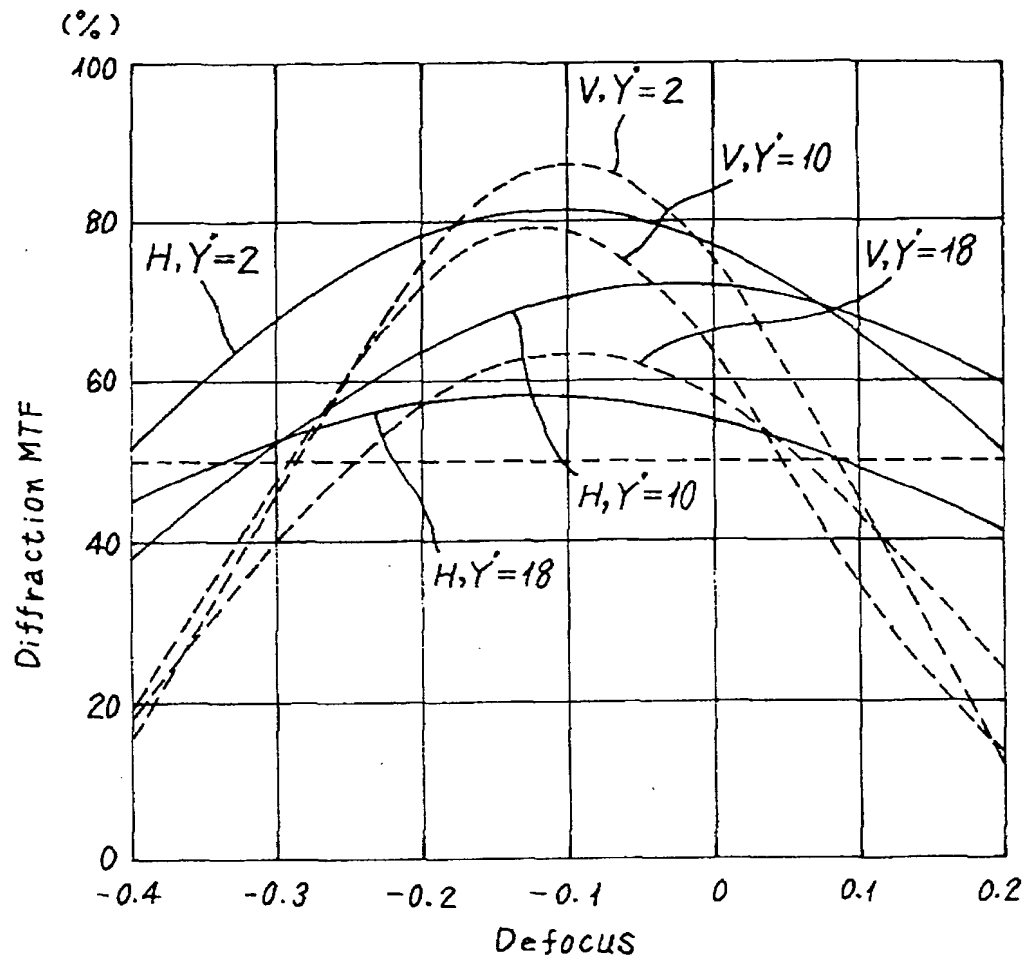


FIG.6

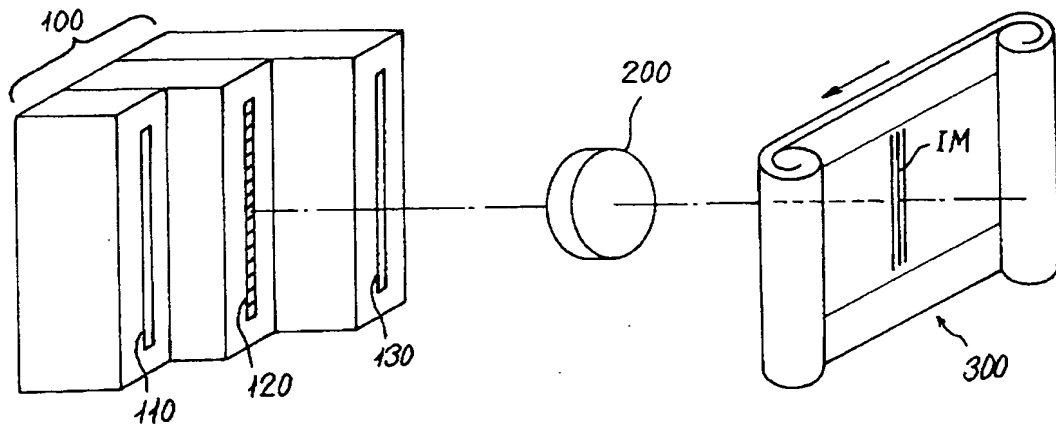


FIG.7

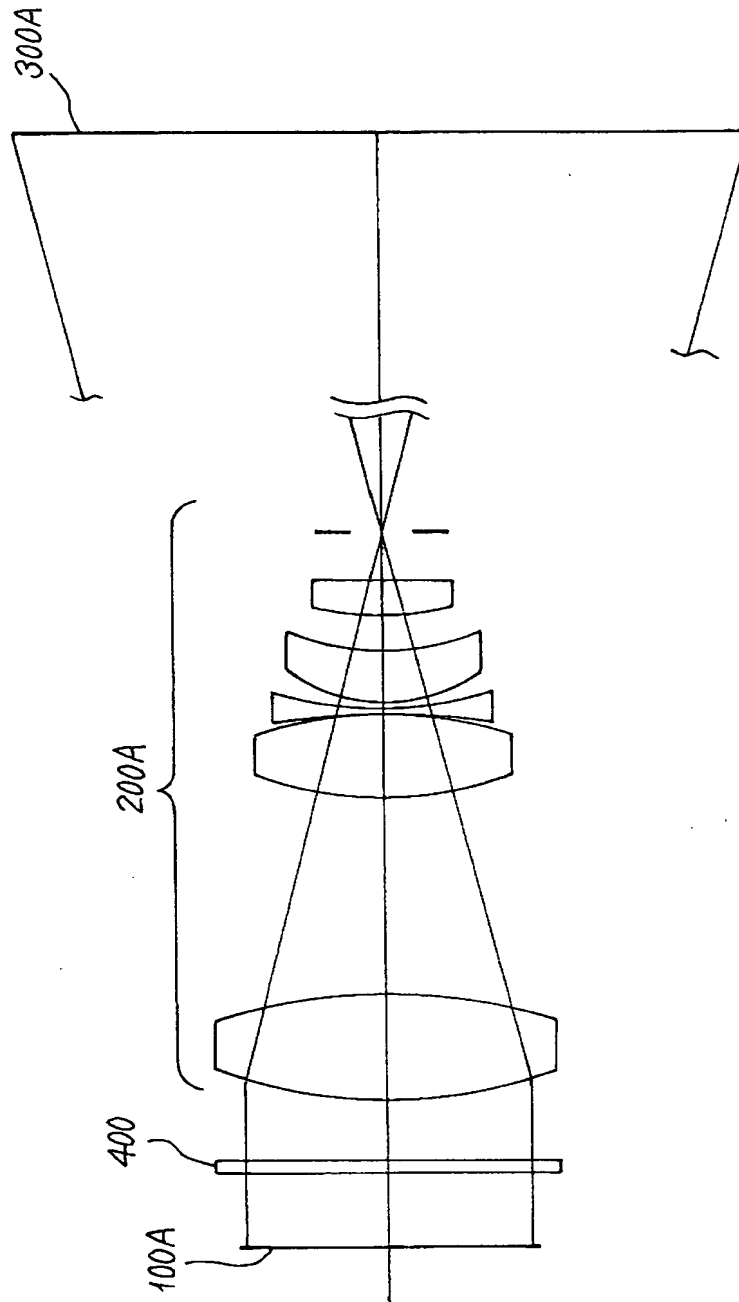


FIG.8

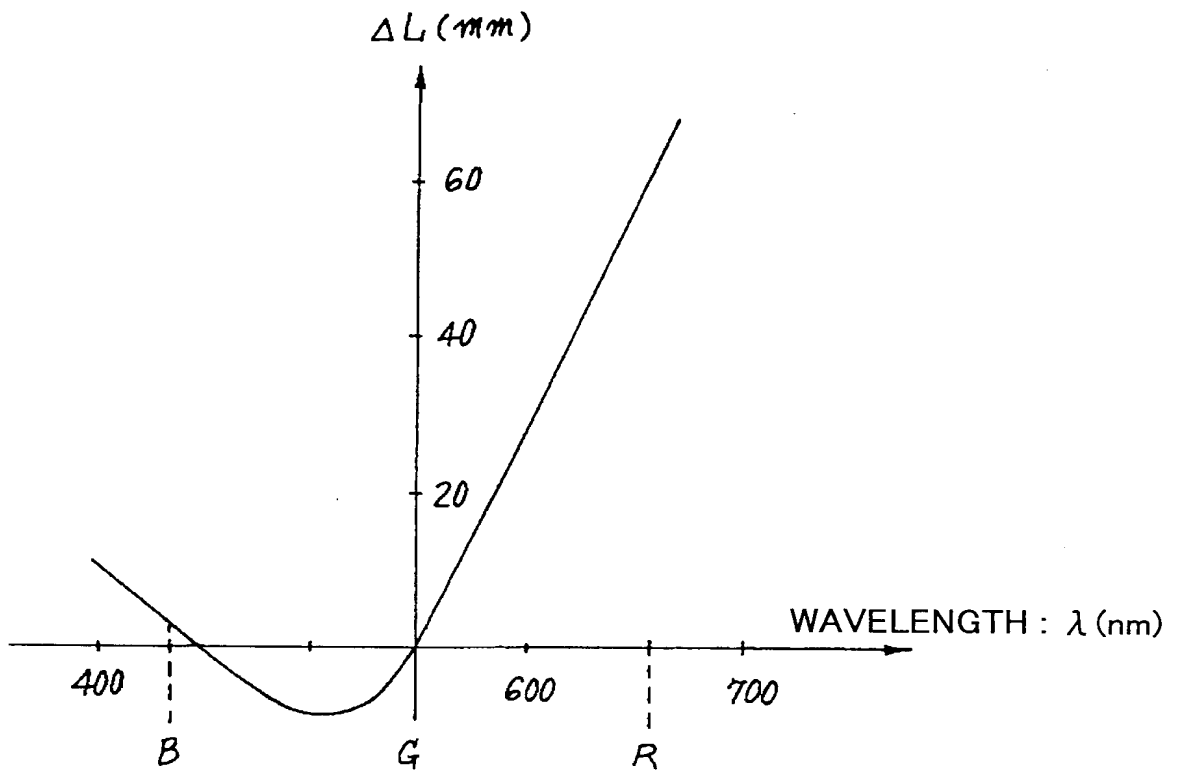


FIG.9A

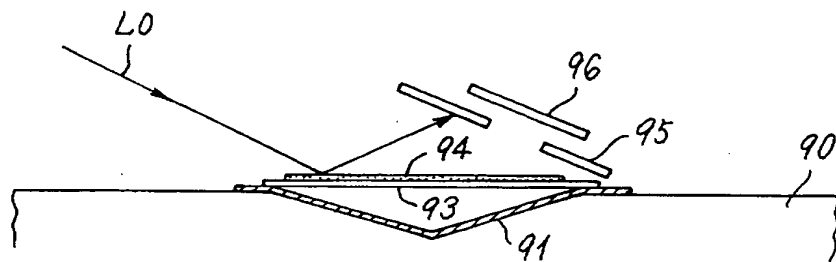


FIG.9B

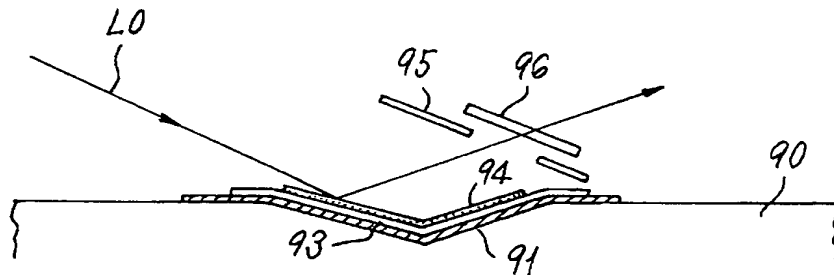


FIG.10

i	DESCRIPTION OF SURFACE	Rv	Rh	d	Nd
1	STOPPER	0.0	0.0	5.38	1.0
2	XZ NON-ARCUATE SURFACE	105.08	8.171	3.12	1.53
3	WT SURFACE	28.28	6.62	3.	1.0
4	SPHERICAL SURFACE	502.78	502.78	0.7	1.83511
5	SPHERICAL SURFACE	22.47	22.47	8.47	1.48749
6	SPHERICAL SURFACE	-14.74	-14.74	11.83	1.0
7	WT SURFACE	-67.45	29.20	8.3	1.53046
8	XZ NON-ARCUATE SURFACE	-23.28	25.58	30.1	1.0
9	IMAGE SURFACE (SURFACE ARRANGED WITH MODULATOR PARTS)				1.0

FIG.11

SURFACE COEFFICIENT		2ND ORDER	4TH ORDER	6TH ORDER	8TH ORDER	10TH ORDER
i						
2	a		-5.88E-05	-7.72E-07	-9.58E-08	2.20E-09
	b	-1.22E-03	-5.31E-05	4.69E-06	-1.13E-07	
	d	-3.36E-05	1.21E-05	-1.08E-06	2.76E-08	
	e	3.82E-06	-1.46E-06	1.30E-07	-3.29E-0	
3	a		-4.64E-06	-7.32E-07	-2.58E-08	4.08E-10
	b	-1.65E-03	-8.52E-08	1.43E-07	-1.61E-10	
8	a		-8.02E-06	6.12E-08	-1.57E-08	4.08E-10
	b	-1.25E-04	-2.08E-07	7.22E-10	6.58E-13	
9	a		-7.30E-06	2.20E-08	-2.90E-11	-2.10E-14
	b	-1.17E-04	-2.09E-07	-2.98E-10	1.87E-12	
	d	-5.69E-06	1.01E-07	-3.60E-10	3.65E-13	
	e	2.50E-06	-3.92E-08	1.62E-10	-2.10E-13	

FIG.12

SURFACE NO. i	R	D	Nd	ν d
1	40. 8	11. 6	1. 58913	61. 3
2	-54. 0	21. 1	1. 0	
3	33. 1	8. 6	1. 6968	55. 5
4	-44. 5	0. 2	1. 0	
5	-66. 5	0. 7	1. 83634	33. 7
6	32. 3	0. 6	1. 0	
7	15. 47	5. 4	1. 53046	55. 8
8	20. 6	4. 0	1. 0	
9	30. 4	3. 8	1. 53046	55. 8
10	-731. 0		1. 0	